

exceed the NAC as a result of the project alternatives in the 2030 design year, noise level contours, or points of equal noise levels, were calculated using FHWA's Traffic Noise Model® (TNM), Version 2.5 (February 2003). The noise-sensitive sites within the PSA consist mostly of the exterior areas of low-density and medium-density residential land uses (land use Activity Category B). Therefore, the noise level contour locations were calculated for the 66 and 71 dBA noise levels. The noise contours are models of future conditions that provide a conservative estimate of future noise levels used for preliminary identification of noise-sensitive properties potentially affected by future traffic noise from the proposed project. The contours are not intended to reflect actual future conditions. In addition, the 66 and 71 dBA noise contours are intended to assist local authorities and developers in exercising control over the remaining undeveloped lands adjacent to the roadway within the local jurisdiction. For example, with proper information on noise, local authorities can prevent development of activities and land uses that are incompatible with the predicted noise levels of an adjacent highway.

An evaluation of the areas delineated by the 2030 66 dBA noise contour reveals 91 noise-sensitive sites (mostly single-family residences adjacent to existing US 64) that are either within or in proximity to the noise contour. For the purpose of the noise study, the noise-sensitive sites are grouped into four noise-sensitive areas (NSA). The limits of the NSAs are consistent with the project sections discussed in [Chapter 2](#) and shown on [Figure 2-12](#), [Figure 2-13](#), [Figure 2-16](#) and [Figure 2-17](#). [Table 4-73](#) lists the location of each NSA and provides a brief description of the associated land use.

**Table 4-73**  
**Noise-Sensitive Areas**

Noise-Sensitive Area	Location	Build Alternatives	Land Use
NSA 1	US 64 in Section 1 from STA 67+00 to STA 663+00, including the Alligator community ( <a href="#">Figure 2-12</a> )	1A and 1B	Isolated single-family residences and cemetery
NSA 2	US 64 in Section 2 from STA 663+00 to STA 707+00, including the Alligator River Marina ( <a href="#">Figure 2-16</a> )	EL 1 to EL 13	Isolated single-family residences and marina
NSA 3	US 64 in Section 4 from the east bank of the Alligator River to STA 1020+00, including the East Lake community ( <a href="#">Figure 2-17</a> )	EL 1 to EL 13	Isolated single-family residences and bird sanctuary
NSA 4	US 64 in Section 5 from STA 1020+00 to STA 1486+77 ( <a href="#">Figure 2-13</a> )	5A and 5B	Isolated single-family residences and churches

[Table 4-74](#) provides a summary of the noise-sensitive sites approaching or exceeding the NAC within each NSA by detailed study alternative.